

SENSOR FOR ANALYZING COMPONENTS OF FLUIDS

ABSTRACT OF THE DISCLOSURE

A sensor is provided that is useful for assaying a component of a biological fluid such as blood, urine or milk, and comprises a chamber having an inlet, a liquid containing portion and a vapor containing portion. The liquid and vapor containing portions are in fluid communication. A pressure monitor is in communication with the vapor containing portion and measures pressure change within the vapor containing portion, such as carbon dioxide partial pressure changes which are related to concentration of urea in blood, urine or milk when the enzyme is urease. A method of analyzing a component such as urea in a biological fluid is also provided. Where the biological fluid is dairy milk, milk urea nitrogen to a prediction error of about +/- 1 mg/dl may be repeatedly measured in the physiological range of from about 6 to 24 mg/dl.

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